

## Material: DIN 1.7218

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN 1.7218 Seamless Steel Tubes for Pressure Purposes

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Steel and Tube

| Chemical Composition |      |               | Heat Treatment          |              |
|----------------------|------|---------------|-------------------------|--------------|
| Carbon               | C %  | 0.220 - 0.290 | Quenching + Tempering   |              |
| Silicon              | Si % | 0.400 max.    |                         |              |
| Manganese            | Mn % | 0.600 - 0.900 |                         |              |
| Phosphorus           | P %  | 0.035 max.    |                         |              |
| Sulphur              | S %  | 0.035 max.    |                         |              |
| Chromium             | Cr % | 0.900 - 1.200 |                         |              |
| Molybdenum           | Mo % | 0.150 - 0.300 |                         |              |
| Iron                 | Fe % | Balance       |                         |              |
| -                    | -    | -             | Mechanical Properties   |              |
| -                    | -    | -             | Tensile Strength in Mpa | 539.4 - 1400 |
| -                    | -    | -             | Yield Strength in Mpa   | 300 - 440    |
| -                    | -    | -             | Elongation in %         | 4 min.       |
| -                    | -    | -             | Reduction of Area in %  | 50 min.      |
| -                    | -    | -             | Hardness in HB          | 160 - 270    |
| -                    | -    | -             | Impact in Joule         | 22 J @ RT    |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 10216-2               | BS       | British        | Steel and Tube               |
| 1.7218                | EN       | European Union | Steel and Tube               |
| 25 CrMo 4             | AFNOR NF | France         | Steel and Flat               |
| 25 CrMo 4             | BS       | British        | Steel                        |
| 25 CrMo 4             | DIN      | Germany        | Steel                        |
| 25 CrMo 4             | ISO      | International  | Steel and Tube               |
| 25 CrMo 4             | UNI      | Italy          | Steel and Tube               |

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India